

 Region:
 Liguria
 Archetype code:

 Building category:
 Residential buildings – Apartments in multi-family block
 RES_APPBLOCK_-1950_D_LIG

 Period of construction:
 -1950_D_LIG

 Climatic zone:
 D
 Number of records:
 31070

Description: Data sources:

External walls: no data available Roof slabs: no data available

EPC databases (100%)

	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Q2 (Median value)	Q3 (third quartile)		
BUILDING GEOMETRY	Number of floors	n _f	-	-	-	-	-	-		
	Gross height	Hg	m	-	-	-	-	-		
	Footprint area	A _{footprint}	m²	-	-	-	-	-		
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-		
	Heated net floor area	A _{H;n}	m²	-	-	-	-	-		
	Heated gross volume	V _{H;g}	m ³	-	-	-	-	-		
	Heated net volume	$V_{\rm H;n}$	m³	-	-	-	-	-		
	Compactness ratio	$A_{\rm env}/V_{\rm H;g}$	m ⁻¹	0.50	0.24	0.31	0.46	0.66		
	WWR – North orientation	WWR _N	-	-	-	-	-	-		
	WWR – South orientation	WWR _S	-	-	-	-	-	-		
	WWR – East orientation	WWR _E	-	-	-	-	-	-		
	WWR – West orientation	WWR _W	-	-	-	-	-	_		
	Window to useful floor area ratio	A _{wi} /A _{use}	-	0.11	0.04	0.09	0.10	0.11		
	Roof type				-					
	<i>U</i> -value of the roof	U _{fl;up}	W/(m ² ·K)	1.40	0.72	0.91	1.52	1.79		
	External walls type				-					
ENVELOPE	<i>U</i> -value of the wall	$U_{ m wl}$	W/(m²·K)	1.67	0.62	1.21	1.57	2.19		
Æ	Slab on ground floor type				-					
E	<i>U</i> -value of the floor	U _{fl;lw}	W/(m ² ·K)	1.62	0.61	1.33	1.55	1.79		
	Windows type				-					
	<i>U</i> -value of the windows	U _W	W/(m ² ·K)	3.87	1.20	3.01	4.00	4.85		
	Shading system type	-								
_ Z	Occupancy density *	O _C	person/m²	/m ² UNI EN 16798-1 - Table A.19						
GAINS and ENTILATIO	Lighting power density *	W _L	W/m²	UNI EN 16798-1 - A.8.3						
SN F	Equipment power density *	W _A	W _A W/m ² UNI EN 16798-1 - A.8.3							
GAINS and VENTILATION	Type of ventilation			Natural: 99%; Mechanical: 1%						
>	Air exchange rate *	n	h ⁻¹	0.30	0.00	0.30	0.30	0.30		
THERMAL SYSTEMS	Heating system type	Unknown: 95%; Autonomous: 5%								
	Heating generator	Traditional boiler: 42%; Unknown: 41%; Condensing boiler: 13%; Air-source heat pump: 3%; Fireplace: 1%								
	Daily operating time of the heating system *	t _H	h	12	0	12	12	12		
	Energy carrier	Unknown: 41%; Natural gas: 37%; Electricity and natural gas: 17%; Electricity: 3%; Electricity and solid biomass: 1%; LPG: 1%								
	Heating emission sub-system	Radiators: 55%; Unknown: 41%; Fan-coil: 1%; Air Ducts: 1%; Radiant panels: 1%; Convectors: 1%								
	Cooling system type	Unknown: 93%; Heat pump air-air: 6%; Heat pump air-water: 1%								
	Daily operating time of the cooling system *	tc	h	-	-	-	-	-		
	Cooling emission sub-system				-		'			
	DHW system type									
	DHW generator	Unknown: 74%; Condensing boiler: 11%; Electric boiler: 8%; Natural gas boiler: 5%; Electric heat pump: 2%								
	* These values were not available in the considered sources, and are thus derived from UNI EN Standards									







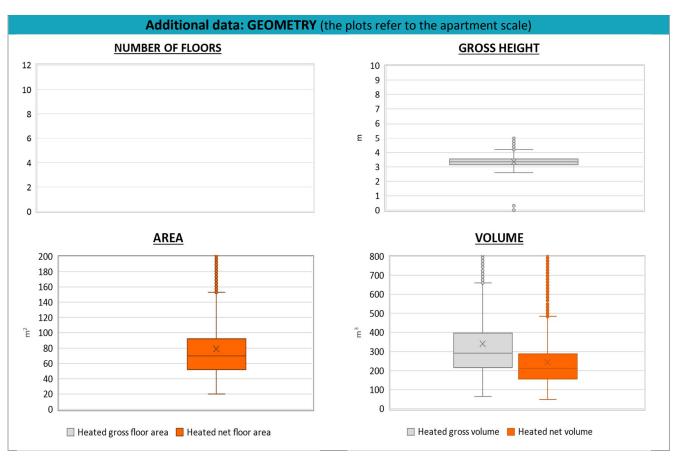
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ADDITIONAL DATA											
	Data	Symbol	Unit of measure	Mean value	Standard deviation	Q1 (first quartile)	Median value	Q3 (third quartile)			
GEOMETRY: apartments	Inter-storey height	H _n	m	3.4	0.4	3.1	3.3	3.6			
	Heated gross floor area	A _{H;g}	m²	-	-	-	-	-			
	Heated net floor area	A _{H;n}	m²	79.2	44.2	52.2	69.7	92.4			
	Heated gross volume	V _{H;g}	m³	340.7	207.7	218.1	292.6	395.7			
U 18	Heated net volume	V _{H;n}	m³	246.6	153.4	155.1	211.3	287.6			
THERMAL SYSTEMS	Heating efficiency or COP	η _{H;gen} or <i>COP</i> _{H;gen}	-	This value has to be retrieved from suitable datasheets							
	Total heating power *	P _{H;gen}	kW	22.6	5.9	23.3	24.0	24.0			
	Cooling efficiency or EER	η _{C;gen} or <i>EER</i> _{C;gen}	-	This value has to be retrieved from suitable datasheets							
	Total cooling power *	P _{C;gen}	kW	-	-	-	-	-			
	Temperature of DHW	θ_{W}	°C	-	-	-	-	-			
F	DHW system power *	$P_{ m W;gen}$	kW	20.3	8.5	20.0	24.0	24.0			
	* These values refer to the apartment s										







NOTE: Sample size of the analysed data.

Compactness ratio: 30772; Window to useful floor area ratio: 2536; U-value of the roof: 5074; U-value of the wall: 26871; U-value of the floor: 1581; U-value of the windows: 29586; Inter-storey height: 30985; Heated net floor area: 30993; Heated gross volume: 30767; Heated net volume: 30782; Total heating power: 12422; DHW system power: 20560; CO2 Emission: 30447; EP_H_nren: 30933; EP_W_nren: 29179; EP_GL_nren: 30844; EP_H_ren: 22167; EP_W_ren: 17635